

**Amendments to the Claims**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

1. (Currently Amended) A method for producing a transgenic cotton plant comprising the steps of:

- (a) obtaining cotton petiole explants,
- (b) exposing the petiole explants to a culture of *Agrobacterium tumefaciens* that harbors a vector comprising an exogenous gene and a selectable marker, the *Agrobacterium* being capable of effecting the stable transfer of the exogenous gene and selection agent resistance gene to the genome of the cells of the petiole explant,
- (c) culturing the petiole explants in medium containing low concentrations of plant hormones to induce callus formation,
- (d) selecting a transformed callus that expresses the exogenous gene,
- (e) culturing the selected callus in suspension culture to induce formation of embryoids, and
- (f) regenerating an embryoid to obtain a transgenic cotton plant.

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